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24: CSA Life Sciences Abstracts 1966-2010/Aug
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71: ELSEVIER BLOBASE 1994-2010/ Aug W5
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information.
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99: Wilson Appl. Sci & Tech Abs 1983-2010/ Jun
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                 RD (unique items)
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      1182539
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          2047722
                   MUTANT
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DIALOG(R) File 24: CSA Life Sciences Abstracts
(c) 2010 CSA. All rts. reserv.
                  IP ACCESSION NO: 8618807
0003404509
Functional domains of the Toxoplasma GRA2 protein in the formation of
the membranous nanotubular network of the parasitophorous vacuole
                    Mondragon, Ricardo; Dubremetz, Jean-Francois;
Travier, Laetitia;
Musset, Karine; M
                 Mondragon, Monica; Gonzalez, Sirenia; Cesbron-Delauw,
Marie-France;
                Mercier, Corinne
Laboratoire Adaptation et Pathogenie des M cro-organismes, Universite
Joseph Fourier CRENOBLE 1, Centre National de la Recherche Scientifique UMR 5163, BP 170, Campus Sante, Domaine de la Merci, 38042 Grenoble cedex 9,
France, [mailto:corinne.mercier@ujf-grenoble.fr]
International Journal for Parasitology, v 38, n 7, p 757-773, June 2008
PUBLICATION DATE: 2008
PUBLISHER: Elsevier Science, P.O. Box 800 Kidlington Oxford OX5 1DX UK,
[mailto:nlinfo-f@elsevier.nl], [URL:http://www.elsevier.nl]
DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
I SSN: 0020-7519
FILE SEGMENT: Algology, Mycology & Protozoology Abstracts (Microbiology C)
Functional domains of the Toxoplasma CRA2 protein in the formation of
the membranous nanotubular network of the parasitophorous vacuole
Travier, Laetitia; Mondragon, Ricardo; Dubremetz, Jean-Francois; Musset, Karine; Mondragon, Monica; Gonzalez, Sirenia; Cesbron-Delauw,
Marie-France; Mercier, Corinne
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ABSTRACT:

to induce membrane tubulation. Previous studies had shown that the CRA2 dense granule protein of Toxoplasma gondii would be a crucial protein for the formation of the intravacuolar membranous nanotubular net work...

.is alone not sufficient to induce membrane tubulation within the PV; and (iii) only one mutant, NT- alpha 1 alpha 2 alpha 3, restores most of the biochemical and functional properties...

... DESCRIPTORS: Complementation; Granules; Hydrophobicity; Membrane proteins; Protein structure; Secondary structure; Secretion; Traffic; Vacuol es; Vesicles; parasitophorous vacuole; Toxoplasma gondii

6/3, K/2 (Item 1 from file: 399) DIALOG(R) File 399: CA SEARCH(R)

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CA: 146(9)161103j J OURNAL 146161103

M cl-3 knockout of Toxoplasma gondii is a successful vaccine against chronic and congenital toxoplasmosis in mice

AUTHOR(S): Ismael, Alaa Bassuny; Dimer-Poisson, Isabelle; Lebrun, Maryse; Dubremetz, Jean-Francois; Bout, Daniel; Mevelec, Marie-Noelle LOCATION: Institut National de la Recherche Agronomique, Unite Mixte de Recherche, Universite-INRA d'Immunologie Parasitaire et Vaccinologie, Unite de Formation et de Recherche des Sciences Pharmaceutiques, Institut Federatif de Recherche, Agents Transmissibles et Infectiologie, Universite

Francois-Rabelais de Tours, Tours, Fr.
JOURNAL: J. Infect. Dis. (Journal of Infectious Diseases) DATE: 2006
VOLUME: 194 NUMBER: 8 PAGES: 1176-1183 CODEN: JIDIAQ ISSN: 0022-1899
LANGUAGE: English PUBLISHER: University of Chicago Press

(Item 2 from file: 399) 6/3, K/3 DIALOG(R) File 399: CA SEARCH(R)

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CA: 143(7)114041r PATENT 143114041

Vaccine stocks of the Apicomplexan family Sarcocystidae

INVENTOR(AUTHOR): Dubremetz, Jean Francois; Bout, Daniel; Lebrun, Maryse LOCATION: Fr.

ASSIGNEE: Institut National de la Recherche Agronomique INRA; Centre National de la Recherche Scientifique CNRS; Universite Francois Rabelais PATENT: France Demande; FR 2864966 A1 DATE: 20050715 APPLI CATI ON: FR 2004260 (20040113)

PACES: 33 pp. CODEN: F PATENT CLASSI FI CATI ONS: CODEN: FRXXBL LANGUAGE: French

CLASS: C12N-001/11A; A61K-039/002B; A61K-035/68B; A61P-033/02B; C12N-015/30B

(Item 3 from file: 399) 6/3, K/4 DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

124107952 CA: 124(9)107952t JOURNAL Complementation of a Toxoplasma gondii ROP1 knock-out mutant using phleomycin selection

AUTHOR(S): Soldati, Dominique; Kami Kim, Jennifer Kampmeier; Dubremetz, Jean-Francois; Boothroyd, John C.

LOCATION: Department of Microbiology and Immunology, Stanford University

School of Medicine, Stanford, CA, 94305-5402, USA

JOURNAL: Mol. Biochem Parasitol. DATE: 1995 VOLUME: 74 NUMBER: 1

PAGES: 87-97 CODEN: MBIPDP ISSN: 0166-6851 LANGUAGE: English

DI ALOG(R) File 185: Zoological Record Online(R)
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09005848 BI OSIS No. 14409051609
Functional domains of the Toxoplasma GRA2 protein in the formation of the membranous nanotubular network of the parasitophorous vacuole.

AUTHORS: Travier, Laetitia; Mondragon, Ricardo; Dubremetz,
Jean-Francois; Musset, Karine; Mondragon, Monica; Gonzalez, Sirenia;
Cesbron-Delauw, Marie-France; Mercier, Corinne (a)

AUTHORS ADDRESS: (a) Univ Grenoble 1, Ctr Natl Rech Sci, BP 170, Campus Sante, Domaine Merci, F-38042 Grenoble; France corinne. mercier@jf-grenoble.fr

SOURCE: International Journal for Parasitology 38(7), June 2008: 757-773.

[Print]

DOCUMENT TYPE: Article
ISSN: 0020-7519

LANGUAGES: English SUMMARY LANGUAGES: English RECORD TYPE: Abstract

Functional domains of the Toxoplasma CRA2 protein in the formation of the membranous nanotubular network of the parasitophorous vacuole. AUTHORS: Travier, Laetitia; Mondragon, Ricardo; Dubremetz, Jean-Francois; Musset, Karine; Mondragon, Monica; Conzalez, Sirenia; Cesbron-Delauw, Marie-France; Mercier, Corinne...

- ... ABSTRACT: to induce membrane tubulation. Previous studies had shown that the CRA2 dense granule protein of Toxoplasma gondii would be a crucial protein for the formation of the intravacuolar membranous nanotubular network...
- ...is alone not sufficient to induce membrane tubulation within the PV; and (iii) only one mutant, NT-[alpha]1[alpha]2[alpha]3, restores most of the biochemical and functional properties...

#### DESCRI PTORS:

Toxoplasma gondii -- Microfilaments and microtubules... BROADER TERMS: SYSTEMATICS:

Toxoplasma gondii - - ( Coccidia )

6/3, K/6 (Item 2 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
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04716409 BI OSIS No. 13800056470
Bi ogenesis of nanotubular network in Toxoplasma parasitophorous vacuole induced by parasite proteins.
AUTHORS: Mercier, Corinne; Dubremetz, Jean-Francois; Rauscher, Beatrice; Lecordier, Laurence; Sibley, L. David; Cesbron-Delauw, Marie-France (a)
AUTHORS ADDRESS: (a) Centre National de la Recherche Scientifique FRE 2383, Universite Joseph Fourier, Batiment CERMO, Grenoble, 38041; France SOURCE: Molecular Biology of the Cell 13(7), July 2002: 2397-2409. [Print] DOCUMENT TYPE: Article ISSN: 1059-1524
LANGUAGES: English SUMMARY LANGUAGES: English RECORD TYPE: Abstract

Bi ogenesis of nanotubular network in Toxoplasma parasitophorous vacuole induced by parasite proteins.

AUTHORS: Mercier, Corinne; Dubremetz, Jean-Francois; Rauscher, Beatrice; Lecordier, Laurence; Sibley, L. David; Cesbron-Delauw, Marie-France...

ABSTRACT: The intracellular parasite Toxoplasma gondii develops within a nonfusogenic vacuole containing a network of elongated nanotubules that form connections...

- ...as GRA proteins) decorate this intravacuolar network after invasion. Herein, we show using specific gene knockout mutants, that the unique nanotubule conformation of the network is induced by the parasite secretory protein GRA2 and further stabilized by GRA6. The vacuolar compartment generated by GRA2 knockout parasites was dramatically disorganized, and the normally tubular network was replaced by small aggregated material...
- ...early conformation is essential to proper assembly of the network.

  Construction of a [DELTA] gra6 mutant also led to an altered mature
  network characterized by small vesicles instead of elongated nanotubules
  ...
- ...the initial formation of the posterior organizing center was normal. Complementation of the [DELTA] gra2 knockout with mutated forms of GRA2 showed that the integrity of both amphipathic alpha-helices of...

DESCRI PTORS:

Toxoplasma gondii--Microfilaments and microtubules...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia) - - Parasite

6/3, K/7 (Item 3 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
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04298233 BI OSI S No. 13200052073

Complementation of a Toxoplasma gondii ROP1 knock-out mutant

using phleomycin selection.

AUTHORS: Soldati, Dominique; Kim, Kami; Kampmeier, Jennifer; Dubremetz,

Jean-Francois; Boothroyd, John C.

SOURCE: Molecular and Biochemical Parasitology 74(1), October 1995:87-97. [Print]

DOCUMENT TYPE: Article

I SSN: 0166-6851

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Citation

Complementation of a Toxoplasma gondii ROP1 knock-out mutant using phleomycin selection.

AUTHORS: Soldati, Dominique; Kim, Kami; Kampmeier, Jennifer; Dubremetz, Jean-Francois; Boothroyd, John C.

DESCRIPTORS:

Toxoplasma gondii - - Apical complex...

...knock out mutant characterization...

... Phoptry protein knock out mutant characterization...

BROADER TÉRIVS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)

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(c) 2010 American Chemical Society. All rts. reserv.
                    CA: 146(9) 161103j
                                                 J OURNAL
   M cl - 3 knockout of Toxoplasma gondii is a successful vaccine against
   chronic and congenital toxoplasmosis in mice
AUTHOR(S): Ismael, Alaa Bassuny; Dimer-Poisson, Isabelle; Lebrun, Maryse; Dubremetz, Jean-Francois; Bout, Daniel; Mevelec, Marie-Noelle LOCATION: Institut National de la Recherche Agronomique, Unite Mixte de Recherche, Universite-INRA d'Immunologie Parasitaire et Vaccinologie, Unite de Formation et de Recherche des Sciences Pharmaceutiques, Institut
Federatif de Recherche, Agents Transmissibles et Infectiologie, Universite
Francois-Rabelais de Tours, Tours, Fr.
   JOURNAL: J. Infect. Dis. (Journal of Infectious Diseases) DATE: 2006
VOLUME: 194 NUMBER: 8 PAGES: 1176-1183 CODEN: JIDIAQ ISSN: 0022-1899
   LANGUAGE: English PUBLISHER: University of Chicago Press
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DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.
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  146161103
                                           J OURNAL
  M cl - 3 knockout of Toxoplasma gondii is a successful vaccine against
  chronic and congenital toxoplasmosis in mice
 AUTHOR(S): Ismael, Alaa Bassuny; Dimier-Poisson, Isabelle; Lebrun, Maryse
Dubremetz, Jean-Francois; Bout, Daniel; Mevelec, Marie-Noelle
LOCATION: Institut National de la Recherche Agronomique, Unite Mixte de
Recherche, Universite-INRA d'Immunologie Parasitaire et Vaccinologie, Unite
de Formation et de Recherche des Sciences Pharmaceutiques, Institut
Federatif de Recherche, Agents Transmissibles et Infectiologie, Universite
Francois-Rabelais de Tours, Tours, Fr.
JOURNAL: J. Infect. Dis. (Journal of Infectious Diseases) DATE: 2006
VOLUME: 194 NUMBER: 8 PAGES: 1176-1183 CODEN: JIDIAQ ISSN: 0022-1899
  LANGUAGE: English PUBLISHER: University of Chicago Press
                 (Item 1 from file: 185)
 11/3, K/2
DIALOG(R) File 185: Zoological Record Online(R)
(c) 2010 The Thomson Corp. All rts. reserv.
                 BI OSI S No. 14507042701
09071437
A dynamin is required for the biogenesis of secretory organelles in
Toxoplasma gondii.
AUTHORS: Breinich, Manuela S. (a); Ferguson, David J.P.; Foth, Bernardo J.; van Dooren, Giel G.; Lebrun, Maryse; Quon, Doris V.; Striepen, Boris;
Bradley, Peter J.; Frischknecht, Friedrich; Carruthers, Vern B.; Meissner,
Markus
AUTHORS ADDRESS: (a) Univ Heidelberg, Sch Med, D-69120 Heidelberg; Germany
mar kus. mei ssner @med. uni - hei del ber g. de
SOURCE: Current Biology 19(4), February 24 2009: 277-286.
DOCUMENT TYPE: Article
I SSN: 0960-9822
LANGUAGES: English
RECORD TYPE: Abstract
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A dynamin is required for the biogenesis of secretory organelles in
Toxoplasma gondii.
...AUTHORS: a); Ferguson, David J.P.; Foth, Bernardo J.; van Dooren, Giel G.; Lebrun, Maryse; Quon, Doris V.; Striepen, Boris; Bradley, Peter J.; Frischknecht, Friedrich; Carruthers, Vern B.; Meissner...
... ABSTRACT: absence of these organelles, invasion-related secretory
  proteins are mistargeted to the constitutive secretory pathway.
  Mutant parasites are able to replicate but are unable to escape
  from or invade into host...
DESCRI PTORS:
  Toxoplasma gondii--Organelles...
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii--( Coccidia )
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>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set. S17 16 RD (unique items)? t s17/3, k/1-16

>>>KW/C option is not available in file(s): 399

17/3, K/1 (Item 1 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0004080029 I P ACCESSI ON NO: 12494469
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
M C3 to the M cronemes

Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Carcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun\*, Maryse UMR 5235 CNRS, Universite de Montpellier 2, CP 107, Place Eugene Bataillon, 34090 Montpellier, France, [mailto:maryse.lebrun@univ-montp2.fr]

Eukaryotic Cell, v 7, n 6, p 1019–1028, June , 2008 PUBLI CATI CN DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W. Washington, DC 20036 USA

DOCUMENT TYPE: Journal Article RECORD TYPE: Abstract LANGUAGE: English SUMMARY LANGUAGE: English

ISSN: 1535-9786
FILE SEGMENT: Algology, Mycology & Protozoology Abstracts (M crobiology C)
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
M C3 to the M cronemes

Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun\*, Maryse

#### ABSTRACT:

The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection; Micronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

17/3, K/2 (Item 2 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
(c) 2010 CSA. All rts. reserv.

0003287982 IP ACCESSION NO: 8301663 Molecular Signals in the Trafficking of Toxoplasma gondii Protein M C3 to the M cronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Carcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse UMR 5235 CNRS, Universite de Montpellier 2, CP 107, Place Eugene Bataillon, 34090 Montpellier, France. FRE 2377 CNRS, Institut de Biologie de Lille, 1 Page 11

rue du Professeur Calmette, 59021 Lille, France. UMR Universite-INRA d'Immunologie Parasitaires, Faculte des Sciences Pharmaceutiques et Biologiques, 31 Avenue Monge, 37200 Tours, France

Eukaryotic Cell, v 7, n 6, p 1019–1028, June 2008 PUBLICATION DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W Washington, DC 20036 USA, [URL: http://www.asm.org/]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract LANGUAGE: English

SUMMARY LANGUAGE: English

I SSN: 1535-9778 ELECTRONI C I SSN: 1535-9786

FILE SEGMENT: Algology, Mycology & Protozoology Abstracts (Microbiology C)

Molecular Signals in the Trafficking of Toxoplasma gondii Protein MC3 to the Mcronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

#### ABSTRACT:

The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection; M cronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

(Item 3 from file: 24) 17/3, K/3 DIALOG(R) File 24: CSA Life Sciences Abstracts (c) 2010 CSA. All rts. reserv.

IP ACCESSION NO: 6171046 0002673714 Synergistic role of micronemal proteins in Toxoplasma gondii vi rul ence

Cerede, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslee. Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse UMR Université-INRA d'Immunologie Parasitaires, Faculte des Sciences Pharmaceutiques et Biologiques, 37200 Tours, France

Journal of Experimental Medicine, v 201, n 3, p 453-463, February 7, 2005 PUBLICATION DATE: 2005

PUBLISHER: Rockefeller University Press, 1114 First Avenue New York NY 10021-8325 USA, [mailto: Bruce. Lyons@ockefeller.edu], [URL: http://www.rockefeller.edu/rupress]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

I SSN: 0022-1007 ELECTRONI C I SSN: 1892-1007

FILE SEGMENT: Immunology Abstracts; Algology, Mycology & Protozoology Abstracts (M crobiology C)

Synergistic role of micronemal proteins in Toxoplasma gondii vi rul ence

Cerede, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslee, Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse

#### ABSTRACT:

... other M.Cs. We have addressed the role of M.C1 and M.C3, two soluble adhesins of Toxoplasma gondii, in invasion and virulence. Single deletion of the M C1 gene decreased invasion in fibroblasts...

... DESCRIPTORS: deletion; Col protein; M cronemes; Acid phosph (tartrate-resistant); Amino acids; Toxoplasmosis; Infection; Secretory vesicles; Fibroblasts; Toxoplasma gondii Aci d phosphat ase

17/3, K/4 (Item 1 from file: 399) DIALOG(R) File 399: CA SEARCH(R) (c) 2010 American Chemical Society. All rts. reserv.

134263300 CA: 134(19) 263300r J OURNAL Identification and characterization of an escorter for two secretory

adhesins in Toxoplasma gondii AUTHOR(S): Reiss, Matthias; Viebig, Nicola; Brecht, Susan; Fourmaux, Marie-Noelle; Soete, Martine; Di Cristina, Manlio; Dubremetz, Jean Francois

Soldati, Dominique

LCCATION: Center for Molecular Biology, University of Heidelberg,

Hei del berg, Germany, D-63120 JOURNAL: J. Cell Biol. DATE: 2001 VOLUME: 152 NUMBER: 3 PAGES: 563-578 CODEN: JCLBA3 ISSN: 0021-9525 LANGUAGE: English PUBLISHER: Rockefeller University Press

(Item 2 from file: 399) 17/3, K/5 DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

131238500 CA: 131(18)238500m JOURNAL Genome engineering of Toxoplasma gondii using the site-specific recombinase Cre

AUTHOR(S): Brecht, Susan; Erdhart, Heike; Soete, Martine; Soldati, Domini que

LOCATION: Zentrum fur Molekulare Biologie Heidelberg, Heidelberg, Germany 69120

JOURNAL: Gene DATE: 1999 VOLUME: 234 NUMBER: 2 PAGES: 239-247 CODEN: GENED6 | SSN: 0378-1119 PUBLISHER | TEM | DENTIFIER: 0378-1119(99)00202-4 LANGUAGE: English PUBLISHER: Elsevier Science B.V.

17/3. K/6 (Item 3 from file: 399) DIALOG(R) File 399: CA SEARCH(R) (c) 2010 American Chemical Society. All rts. reserv.

126027496 CA: 126(3) 27496y J OURNAL

Molecular cloning of the Toxoplasma gondii sag4 gene encoding an 18 kDa bradyzoite specific surface protein

AUTHOR(S): Oedberg-Ferragut, Carmen; Soete, Martine; Engels, Anne; Samyn, Bart; Loyens, Anne; Van Beeumen, Jozef; Camus, Daniel; Dubremetz, Jean-Francoi s

LOCATION: INSERM U42, 369, rue Jules Guesde, BP. 39, 59651, Villeneuve d'Ascq, Fr.

JOURNAL: Mol. Biochem Parasitol. DATE: 1996 VOLUME: 82 NUMBER: 2 Page 13

PAGES: 237-244 CODEN: MBIPDP ISSN: 0166-6851 LANGUAGE: English PUBLISHER: Elsevier

17/3, K/7 (Item 4 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

126004251 CA: 126(1)4251a JOURNAL
Structure and biology of Toxoplasma gondii bradyzoites
AUTHOR(S): Fortier, Bernard; Coignard-Chatain, Catherine; Soete, Martine;
Dubremetz, Jean-Francois
LOCATION: Sevice Parasitologie Mycologie (Pr D. Camus), CHRU, 59037,
Lille, Fr.
JOURNAL: C. R. Seances Soc. Biol. Ses Fil. DATE: 1996 VOLUME: 190
NUMBER: 4 PAGES: 385-394 CODEN: CRSBAW ISSN: 0037-9026 LANGUAGE:
French PUBLISHER: Masson

17/3, K/8 (Item 5 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

121200674 CA: 121(17)200674b JOURNAL
Experimental induction of bradyzoite-specific antigen expression and cyst formation by the RH strain of Toxoplasma gondii in vitro
AUTHOR(S): Soete, Martine; Camus, Daniel; Dubremetz, Jean Francois
LOCATION: INSERM Unite 42, Biologie et biochimie parasitaires et fongiques, 59 651, Villeneuve d'Ascq, Fr.
JOURNAL: Exp. Parasitol. DATE: 1994 VOLUME: 78 NUMBER: 4 PAGES:
361-70 CODEN: EXPAAA ISSN: 0014-4894 LANGUAGE: English

17/3, K/9 (Item 6 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

116004796 CA: 116(1)4796a JOURNAL
Characterization of bradyzoite-specific antigens of Toxoplasma gondii
AUTHOR(S): Tomavo, Stanislas; Fortier, Bernard; Soete, Martine; Ansel,
Catherine; Camus, Daniel; Dubremetz, Jean Francois
LOCATION: U42 Inst. Natl. Sante Rech. Med., 59650, Villeneuve d'Ascq, Fr.
JOURNAL: Infect. Immun. DATE: 1991 VOLUME: 59 NUMBER: 10 PAGES:
3750-3 CODEN: INFIBR ISSN: 0019-9567 LANGUAGE: English

17/3, K/10 (Item 1 from file: 185)
DIALOG(R) File 185: Zool ogical Record Online(R)
(c) 2010 The Thomson Corp. All rts. reserv.

09030573 BICSIS No. 14501001837
Molecular signals in the trafficking of Toxoplasma gondii protein
M C3 to the micronemes.
AUTHORS: EI Hajj, Hiba (a); Papoin, Julien; Cerede, Cdile; Garcia-Reguet,
Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse
AUTHORS ADDRESS: (a) Univ Montpellier, CNRS, CP 107, PI Eugene Bataillon,
F-34090 Montpellier; France maryse.lebrun@univ-montp2.fr
SOURCE: Eukaryotic Cell 7(6), June 2008: 1019-1028. [Print]
DOCUMENT TYPE: Article
ISSN: 1535-9778
LANGUAGES: English
RECORD TYPE: Abstract

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Molecular signals in the trafficking of Toxoplasma gondii protein M C3 to the micronemes.

... AUTHORS: a); Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

ABSTRACT: The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRI PTORS:

Toxoplasma gondii--Organelles...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii -- ( Coccidia ) -- Parasite

17/3, K/11 (Item 2 from file: 185) DIALOG(R) File 185: Zoological Record Online(R) (c) 2010 The Thomson Corp. All rts. reserv.

BI OSI S No. 13800017533 04648653

Potential of [beta]-galactosidase-expressing Toxoplasma gondii for in situ localization and observation of rare stages of the parasite life

AUTHORS: Dao, Anne (a); Soete, Martine; Sergent, Veronique; Deslee,

Didier; Fortier, Bernard; Dubremetz, Jean Francois

AUTHORS ADDRESS: (a) Service de Parasitologie-Mycologie, CHU Brabois-Nancy,

Allee du Morvan, 54511, Vandoeuvre les Nancy Cedex; France SOURCE: Parasitology Research 88(1), January 2002:69-72. [Print]

DOCUMENT TYPE: Article

ISSN: 0932-0113

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Abstract

Potential of [beta]-galactosidase-expressing Toxoplasma gondii for in situ localization and observation of rare stages of the parasite life cycl e.

..AUTHORS: a); Soete, Martine; Sergent, Veronique; Deslee, Didier; Fortier, Bernard; Dubremetz, Jean Francois

ABSTRACT: A cyst-forming strain of Toxoplasma gondii was transfected with the Escherichia coli LacZ gene and expressed [beta]-galactosidase constitutively. This...

DESCRI PTORS:

Toxoplasma gondii--Diagnostic techniques...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)--Parasite

17/3, K/12 (Item 3 from file: 185) DIALOG(R) File 185: Zoological Record Online(R) (c) 2010 The Thomson Corp. All rts. reserv.

04440354 BIOSIS No. 13400038501 Cellular biology of Toxoplasma gondii bradyzoites. ORIGINAL TITLE: Structure et biologie des bradyzoites de Toxoplasma gondi i .

ÄUTHORS: Fortier, Bernard (a); Coignard-Chatain, Catherine; Soete,

Martine; Dubremetz, Jean-Francois

AUTHORS ADDRESS: (a) Service de Parasitologie et de Mycologie (Pr D. Camus), CHRU, 59037 Lille Cedex; France

Page 15

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10585721a. pdf
SOURCE: Comptes Rendus des Seances de la Societe de Biologie et de ses
  Filiales 190(4) 1996:385-394. [Print]
DOCUMENT TYPE:
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I SSN: 0037-9026
LANGUAGES: French
                     SUMMARY LANGUAGES: English; French
RECORD TYPE: Citation
Cellular biology of Toxoplasma gondii bradyzoites.
ORIGINAL TITLE: Structure et biologie des bradyzoites de Toxoplasma
gondi i
... AUTHORS: a); Coignard-Chatain, Catherine; Soete, Martine;
Dubremetz, Jean-Francois
DESCRIPTORS:
  Toxoplasma gondii--Literature review...
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii (Coccidia)
 17/3, K/13
                (Item 4 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
(c) 2010 The Thomson Corp. All rts. reserv.
04382564 BI CSI S No. 13300050499 Mbl ecul ar cloning of the Toxopl asma gondii sag4 gene encoding an 18
kDa bradyzoite specific surface protein.
AUTHORS: Odberg-Ferragut, Carmen (a); Soete, Martine; Engels, Anne;
Samyn, Bart; Loyens, Anne; Van Beeumen, Jozef; Camus, Daniel; Dubremetz,
Jean- Fr ancoi s
AUTHORS ADDRESS: (a) INSERM U42, 369, rue Jules Guesde, BP. 39, 59651
Villeneuve d'Ascq cedex; France
SOURCE: Molecular and Biochemical Parasitology 82(2), 25 November 1996: 237-244. [Print]
DOCUMENT TYPE: Article
ISSN: 0166-6851
LANGUAGES: English
                       SUMMARY LANGUAGES: English
RECORD TYPE: Čitation
Mbl ecular cloning of the Toxoplasma gondii sag4 gene encoding an 18
kDa bradyzoite specific surface protein.
...AUTHORS: a); Soete, Martine; Engels, Anne; Samyn, Bart; Loyens, Anne; Van Beeumen, Jozef; Camus, Daniel; Dubremetz, Jean-Francois
DESCRIPTORS:
  Toxoplasma gondii--Antigens...
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii (Coccidia)
 17/3, K/14
                (Item 5 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
(c) 2010 The Thomson Corp. All rts. reserv.
04229948
               BI OSI S No. 13100052615
Toxoplasma gondii: patterns of bradyzoite-tachyzoite interconversion
in vitro.
AUTHORS: Soete, Martine; Fortier, Bernard; Camus, Daniel; Dubremetz,
Jean Francois
SOURCE: NATO ASI (Advanced Science Institute) Series Series H Cell Biology
  78 1993: 93-98. [Print]
DOCUMENT TYPE: Article
I SSN: 1010-8793
LANGUAGES: English
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RECORD TYPE: Citation

Toxoplasma gondii: patterns of bradyzoite-tachyzoite interconversion in vitro. AUTHORS: Soete, Martine; Fortier, Bernard; Camus, Daniel; Dubremetz, Jean Francois DESCRI PTORS: Toxoplasma gondii - - Development... BROADER TERMS: SYSTEMATICS: Toxoplasma gondii (Coccidia) 17/3, K/15 (Item 6 from file: 185) DIALOG(R) File 185: Zoological Record Online(R) (c) 2010 The Thomson Corp. All rts. reserv. 04221447 BI OSI S No. 13100044141 Experimental induction of bradyzoite-specific antigen expression and cyst formation by the RH strain of Toxoplasma gondii in vitro. AUTHORS: Soete, Martine; Camus, Daniel; Dubremetz, Jean Francois SOURCE: Experimental Parasitology 78(4), June 1994:361-370. [Print] DOCUMENT TYPE: Article ISSN: 0014-4894 LANGUAGES: English SUMMARY LANGUAGES: English RECORD TYPE: Čitation Experimental induction of bradyzoite-specific antigen expression and cyst formation by the RH strain of Toxoplasma gondii in vitro. AUTHORS: Soete, Martine; Camus, Daniel; Dubremetz, Jean Francois DESCRI PTORS: Toxoplasma gondii--Antigens... BROADER TERMS: SYSTEMATICS: Toxoplasma gondii (Coccidia) 17/3, K/16 (Item 7 from file: 185) DIALOG(R) File 185: Zoological Record Online(R) (c) 2010 The Thomson Corp. All rts. reserv. BI OSI S No. 13700022303 03035138 Identification and characterization of an escorter for two secretory adhesins in Toxoplasma gondii. AUTHORS: Reiss, Matthias; Viebig, Nicola; Brecht, Susan; Fourmaux, Marie-Noelle; Soete, Martine; Di Cristina, Manlio; Dubremetz, Jean Francois; Soldati, Dominique (a)
AUTHORS ADDRESS: (a) ZMBH, Im Neunheimer Feld 282, P.O. Box 106249,
Heidelberg, D-69120; Germany
SOURCE: Journal of Cell Biology 152(3), February 5 2001:563-578. [Print]
DOCUMENT TYPE: Article I SSN: 0021-9525 LANGUAGES: English SUMMARY LANGUAGES: English RECORD TYPE: Abstract Identification and characterization of an escorter for two secretory adhesins in Toxoplasma gondii. AUTHORS: Reiss, Matthias; Viebig, Nicola; Brecht, Susan; Fourmaux, Marie-Noelle; Soete, Martine; Di Cristina, Manlio; Dubremetz, Jean Francois; Soldati, Dominique...

ABSTRACT: The intracellular protozoan parasite Toxoplasma gondii shares with other members of the Apicomplexa a common set of apical Page 17

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structures involved...
DESCRI PTORS:
Toxoplasma gondii---Organelles...
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii (Coccidia)
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                    TOXOPLASMA
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                    S18 AND TOXOPLASMA
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>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
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>>>KWIC option is not available in file(s): 399
20/3, K/1 (Item 1 from file: 24)
DIALCG(R) File 24: CSA Life Sciences Abstracts
(c) 2010 CSA. All rts. reserv.
                  IP ACCESSION NO: 12494469
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
MC3 to the Mcronemes
Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Garcia-Reguet,
Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun*, Maryse
                                          Page 18
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UMR 5235 CNRS, Universite de Montpellier 2, CP 107, Place Eugene Bataillon, 34090 Montpellier, France, [mailto:maryse.lebrun@univ-montp2.fr]

Eukaryotic Cell, v 7, n 6, p 1019–1028, June , 2008 PUBLI CATI ON DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W. Washington, DC 20036 USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract LANGUAGE: English

SUMMARY LANGŬAGE: English

I SSN: 1535-9786

FILE SEGMENT: Algology, Mycology & Protozoology Abstracts (M crobiology C) Molecular Signals in the Trafficking of Toxoplasma gondii Protein

M C3 to the M cronemes

Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun\*, Maryse

#### ABSTRACT:

The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection; M cronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

20/3, K/2 (Item 2 from file: 24) DIALOG(R) File 24: CSA Life Sciences Abstracts (c) 2010 CSA. All rts. reserv.

0003287982 IP ACCESSION NO: 8301663 Molecular Signals in the Trafficking of Toxoplasma gondii Protein M C3 to the M cronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse UMR 5235 CNRS, Universite de Montpellier 2, CP 107, Place Eugene Bataillon, 34090 Montpellier, France. FRE 2377 CNRS, Institut de Biologie de Lille, 1 rue du Professeur Calmette, 59021 Lille, France. UMR Universite-INRA d'Immunologie Parasitaires, Faculte des Ceiences Pharmaceutiques et Biologiques, 31 Avenue Monge, 37200 Tours, France

Eukaryotic Cell, v 7, n 6, p 1019-1028, June 2008 PUBLICATION DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W. Washington, DC 20036 USA, [URL: http://www.asm.org/]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGŬAGE: English

I SSN: 1535-9778 ELECTRONI C | SSN: 1535-9786

FILE SEGMENT: Algology, Mycology & Protozoology Abstracts (Microbiology C)

Molecular Signals in the Trafficking of Toxoplasma gondii Protein MC3 to the Mcronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

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The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection; Micronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

20/3, K/3 (Item 3 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
(c) 2010 CSA. All rts. reserv.

0002673714 IP ACCESSION NO: 6171046 Synergistic role of micronemal proteins in Toxoplasma gondii virulence

Cerede, Cdile; Dubremetz, Jean Francois; Soete, Martine; Deslee, Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse UMR Universite-INRA d'Immunologie Parasitaires, Faculte des Sciences Pharmaceutiques et Biologiques, 37200 Tours, France

Journal of Experimental Medicine, v 201, n 3, p 453-463, February 7, 2005 PUBLICATION DATE: 2005

PUBLISHER: Rockefeller University Press, 1114 First Avenue New York NY 10021-8325 USA, [mailto:Bruce.Lyons@rockefeller.edu], [URL:http://www.rockefeller.edu/rupress]

DOCUMENT TYPE: Journal Article RECORD TYPE: Abstract LANGUAGE: English SUMMARY LANGUAGE: English ISSN: 0022-1007 ELECTRONIC ISSN: 1892-1007

FILE SEGMENT: Immunology Abstracts; Algology, Mycology & Protozoology Abstracts (Mcrobiology C)

Synergistic role of micronemal proteins in Toxoplasma gondii virulence

Cerede, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslee, Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse

### ABSTRACT:

... other M Cs. We have addressed the role of M C1 and M C3, two soluble adhesins of Toxoplasma gondii, in invasion and virulence. Single deletion of the M C1 gene decreased invasion in fibroblasts...

... DESCRIPTORS: deletion; Col protein; M cronemes; Acid phosphatase (tartrate-resistant); Amino acids; Toxoplasmosis; Infection; Secretory vesicles; Fibroblasts; Toxoplasma gondii

20/3, K/4 (Item 4 from file: 24) DIALOG(R) File 24: CSA Life Sciences Abstracts (c) 2010 CSA. All rts. reserv.

IP ACCESSION NO: 5380919 0002323997 The Toxoplasma gondii protein  $M \ C\! 3$  requires pro-peptide cleavage and dimerization to function as adhesin

Cerede, O; Dubremetz, JF; Bout, D; Lebrun, M UMR Universite-INRA dimunologie Parasitaire, Faculte des Sciences Pharmaceutiques et Biologiques, 31 Avenue Monge, F-37200 Tours, France, [mailto:lebrun@univ-tours.fr]

EMBO Journal, v 21, n 11, p 2526-2536, June 3, 2002 PUBLICATION DATE: 2002

DOCUMENT TYPE: Journal Article RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

I SSN: 0261-4189

FILE SEGMENT: Nucleic Acids Abstracts; Algology, Mycology & Protozoology

Abstracts (M crobiology C)

The Toxoplasma gondii protein M C3 requires pro-peptide cleavage and dimerization to function as adhesin

Cerede, O; Dubremetz, JF; Bout, D; Lebrun, M

#### ABSTRACT:

proteins and undergo proteolytic processing of unknown biological significance during their transport to micronemes. In Toxoplasma gondii, the micronemal homodimeric protein MIC3 is a potent adhesin that displays features shared by...

DESCRIPTORS: Mammalian cells; Adhesins; Dimerization; Transformation; micronemal proteins; MIC3 protein; MIC8 protein; Toxoplasma gondi i

20/3, K/5 (Item 1 from file: 50) DIALOG(R) File 50: CAB Abstracts 20/3, K/5 (c) 2010 CAB International. All rts. reserv.

0009833498 CAB Accession Number: 20093144448

Further analysis of protection induced by the MC3 DNA vaccine against gondii : CD4 and CD8 T cells are the major effectors of the MC3 DNA vaccine-induced protection, both Lectin-like and EGF-like domains of MIC3 conferred protection.

A. Ismael, A. Mevelec, M. N. B.; Hedhli, D.; Cerede, O.; Lebrun, M; Dimier-Poisson, I.;

Author email address: mevelec@univ-tours.fr

Universite Rabel ai s, INRA, UMR 0483 Universite-INRA Francois d'Immunologie Parasitaire, Vaccinologie et Biotherapies anti-infectieuses, Agents transmissibles et Infectiologie, UFR des Sciences Pharmaceutiques, 31 avenue Monge, 37200 Tours, France.
Vaccine vol. 27 (22): p.2959-2966
Publication Year: 2009

I SSN: 0264-410X

Digital Object Identifier: 10.1016/j.vaccine.2009.02.107

Publisher: Elsevier Amsterdam, Netherlands

Language: English Record Type: Abstract Document Type: Journal article

. . . ORGANI SM DESCRI PTORS: Toxoplasma gondii Page 21

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10585721a. pdf
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... BROADER TERMS: Toxoplasma; Ismael, A. B.; Hedhli, D.; Cerede, O.; Lebrun, M; Dimier-Poisson, I.; Mevelec, M N. 20/3, K/6 (Item 1 from file: 65) DI ALOG(R) File 65: Inside Conferences (c) 2010 BLDSC all rts. reserv. All rts. reserv. INSIDE CONFERENCE I TEM I D: CN040701151 03871878 Identification and molecular characterization of a toxoplasma gondii mi croneme Cerede, O.; Garcia-Reguet, N.; Conseil, V.; Bout, D.; Dubremetz, J.-F.; Lebrun, M CONFERENCE: Recherches actuelles sur les Apicomplexa-Reunion ANNALES PHARMACEUTI QUES FRANCAI SES, 2001; VOL 59; NO 5 P: 293-296 Masson, 2001 I SSN: 0003-4509 LANGUAGE: French DOCUMENT TYPE: Conference Papers CONFERENCE SPONSOR: Academie nationale de Pharmacie CONFERENCE LOCATION: Paris (venue unconfirmed) 2001; Feb (200102) Text in French, summaries in English Identification and molecular characterization of a toxoplasma gondii mi croneme Cerede, O.; Carcia-Reguet, N.; Conseil, V.; Bout, D.; Dubremetz, J.-F.; Lebrun, M 20/3, K/7 (Item 1 from file: 393) DIALCG(R) File 393: Beilstein Database - Abstracts (c) 2008 Beilstein GmbH. All rts. reserv. Beilstein Abstract Id: 6538008 Title: Identification and mol ecul ar char act erization Toxoplasma gondii microneme Record Type: Abstract Document Type: Journal Author: Pradines, O.; Cerede, T.; Carcia-Reguet, N.; Conseil, V.;
Bout, D.; Dubremetz, J.-F.; Lebrun, M
Citation: Ann. Pharm Fr. (2001) Series: 59-5, 293 - 296 CODEN: APFRAD Language: French Abstract Language: English Title: and Identification mol ecul ar characterization а Toxoplasma gondii microneme Author: Pradines, O.; Cerede, T.; Garcia-Reguet, N.; Conseil, V.;
Bout, D.; Dubremetz, J.-F.; Lebrun, M
... Abstract: are involved in the invasion process. We have recently characterized a protein in micronemes of Toxoplasma gondii, TgM C3, which possess adhesive properties to host cell surface. Immunofluorescence analysis of T. gondii... Keywords: apicomplexa; Toxoplasma gondii; microneme; TgM C3; adhesi n; propept i de 20/3, K/8 (Item 1 from file: 399) DIALOG(R) File 399: CA SEARCH(R) (c) 2010 American Chemical Society. All rts. reserv. CA: 136(1) 2600w 136002600 J OURNAL Identification and molecular characterization of an adhesin (TgM C3) of Toxoplasma gondii microneme Page 22

10585721a. pdf AUTHOR(S): Pradines, O.; Cerede, T.; Carcia-Regje, N.; Conseil, V.; Bout, D.; Dubremetz, J. F.; Lebrun, M. LOCATION: Fac. de Pharmacie de Tours, UMR Univ. INRA d'Immunologie Parasitaire, F37200, Tours, Fr. JOURNAL: Ann. Pharm Fr. DATE: 2001 VOLUME: 59 NUMBER: 5 PAGES: 293-296 CODEN: APFRAD ISSN: 0003-4509 LANGUAGE: French PUBLISHER: Masson Editeur 20/3, K/9 (Item 1 from file: 185) DIALOG(R) File 185: Zoological Record Online(R) (c) 2010 The Thomson Corp. All rts. reserv. BI OSI S No. 14501001837 09030573 Molecular signals in the trafficking of Toxoplasma gondii protein M C3 to the micronemes. AUTHORS: El Hajj, Hiba (a); Papoin, Julien; Cerede, Cdile; Carcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, AUTHORS ADDRESS: (a) Univ Montpellier, CNRS, CP 107, Pl Eugene Bataillon, F-34090 Montpellier; France maryse.lebrun@univ-montp2.fr SOURCE: Eukaryotic Cell 7(6), June 2008: 1019-1028. [Print] DOCUMENT TYPE: Article I SSN: 1535-9778 LANGUAGES: English RECORD TYPE: Abstract Molecular signals in the trafficking of Toxoplasma gondii protein M C3 to the micronemes. ..AUTHORS: a); Papoin, Julien; Cerede, Odile; Carcia-Reguet. Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse ABSTRACT: The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes... DESCRI PTORS: Toxoplasma gondii - - Organelles... BROADER TERMS: SYSTEMATICS: Toxoplasma gondii -- ( Coccidia ) -- Parasite 20/3. K/10 (Item 2 from file: 185) DIALOG(R) File 185: Zoological Record Online(R) (c) 2010 The Thomson Corp. All rts. reserv. BI OSI S No. 13800047116 04699985 The Toxoplasma gondii protein M C3 requires pro-peptide cleavage and dimerization to function as adhesin. AUTHORS: Cerede, Odile; Dubremetz, Jean Francois; Bout, Daniel; Lebrun, Maryse (a) AUTHORS ADDRESS: (a) Faculte des Sciences Pharmaceutiques et Biologiques, UMR Universite-INRA d'Immunologie Parasitaire, 31 Avenue Monge, F-37200, Tours; France SOURCE: EMBO Journal 21(11), June 3 2002: 2526-2536. [Print]

The Toxoplasma gondii protein  $M\!\subset\!\!3$  requires pro-peptide cleavage and dimerization to function as adhesin.

SUMMARY LANGUAGES: English

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

ISSN: 0261-4189 LANGUAGES: English

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10585721a. pdf
AUTHORS: Cerede, Odile; Dubremetz, Jean Francois; Bout, Daniel;
Lebrun, Maryse...
... ABSTRACT: proteins and undergo proteolytic processing of unknown biological significance during their transport to micronemes. In
  Toxoplasma gondii, the micronemal homodimeric protein MIC3 is a
  potent adhesin that displays features shared by...
DESCRI PTORS:
  Toxoplasma gondii--Proteins...
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii (Coccidia)--Parasite
? s toxoplasma and (knockout or mutant or (inactiv?))
                    TÒXOPLASMA
           127488
           382656
                    KNOCKOUT
          2047722
                    MUTANT
          1753404
                    I NACTI V?
     S21
                    TOXOPLASMA AND (KNOCKOUT OR MUTANT OR (INACTIV?))
             4606
? s s21 and gondii
             4606
                    S21
           107244
                    GONDII
     S22
                    S21 AND GONDII
             4335
? s s22 and adhesin
             4335
                    S22
                    ADHESI N
            40666
     S23
               68
                    S22 AND ADHESIN
? rd
>>>Duplicate detection is not supported for File 393.
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
     S24
               17
                    RD (unique items)
? t s24/3, k/1-17
>>>KWIC option is not available in file(s): 399
               (Item 1 from file: 5)
 24/3, K/1
DIALCG(R) File 5: Biosis Previews(R) (c) 2010 The Thomson Corporation. All rts. reserv.
DIALOG(R) File
0021654687
              BI OSI S NO.: 201000333710
Rhomboid 4 (ROM4) Affects the Processing of Surface Adhesins and
  Facilitates Host Cell Invasion by Toxoplasma gondii
AUTHOR: Buguliskis Jeffrey S (Reprint); Brossier Fabien; Shuman Joel;
  Sibley L David
AUTHOR ADDRESS: Washington Univ, Sch Med, Dept Mol Microbiol, St Louis, MD
  63110 USA* * USA
AUTHOR E-MAIL ADDRESS: sibley@orcim.wustl.edu
JOURNAL: PLoS Pathogens 6 (4): pArticle No.: e1000858 APR 2010 2010
I TEM | DENT| FI ER: doi: 10. 1371/journal.ppat. 1000858
ISSN: 1553-7366_(print) 1553-7374_(electronic)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
Rhomboid 4 (ROM4) Affects the Processing of Surface Adhesins and
  Facilitatès Host Cell Invasion by Toxoplasma gondii
ABSTRACT: Host cell attachment by Toxoplasma gondii is
  dependent on polarized secretion of apical adhesins released from the
  micronemes. Subsequent translocation of...
                                           Page 24
```

- ...this step; however, their precise roles in vivo have not been elucidated. Using a conditional knockout strategy, we demonstrate that TgROM4 participates in processing of surface adhesins including M C2, AMA1, and M C3. Suppression of TgROM4 led to decreased release of the adhesin M C2 into the supernatant and concomitantly increased the surface expression of this and a subset...
- ...adhesins that is important for efficient cell motility and invasion of host cells by T. gondii.

DESCRI PTORS:

...ORGANI SMS: Toxopl asma gondii (Sporozoa CHEM CALS & BIOCHEM CALS: ...adhesin; ...

...adhesin; ...

... adhesi n

24/3, K/2 (Item 2 from file: 5) DI ALOG(R) File 5: Biosis Previews(R) (c) 2010 The Thomson Corporation. All rts. reserv.

BI OSI S NO.: 200900326608 0020985171

Aldolase Is Essential for Energy Production and Bridging Adhesin - Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells AUTHOR: Starnes G Lucas; Coincon Mathieu, Sygusch Jurgen; Sibley L David

AUTHOR ADDRESS: Washington Univ, Sch Med, Dept Mol Microbiol, 660 S Euclid Ave, St Louis, MD 63130 USA\*\*USA

AUTHOR E-MAIL ADDRESS: sibley@orcim wustl.edu

JOURNAL: Cell Host & M crobe 5 (4): p353-364 APR 23 2009 2009

ITEM | DENTIFIER: doi:10.1016/j.chom 2009.03.005

ISSN: 1931-3128

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

- Aldolase Is Essential for Energy Production and Bridging Adhesin - Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells
- ... ABSTRACT: implicated aldolase, a tetrameric glycolytic enzyme, in coupling actin filaments to the parasite's surface adhesin microneme protein 2 (MIC2). Here, we test the essentiality of this interaction in host cell...
- ... Based on in vitro studies and homology modeling, we generated a series of mutations in Toxoplasma gondii aldolase (TgALD1) that delineated M C2 tail domain (M C2t) binding function from its enzyme activity. We tested these mutants by complementing a conditional knockout of TgALD1. Mutations that affected glycolysis also reduced motility. Mutants only affecting binding to MC2t...
- ...but is also essential for efficient host cell invasion, based on its ability to bridge adhesin-cytoskeleton interactions in the par asi t e.

DESCRI PTORS:

...ORGANISMS: Toxoplasma gondii (Sporozoa CHEMICALS & BIOCHEMICALS: ...adhesin GENE NAME: Toxoplasma gondii TgALD1 gene (Sporozoa...

M SCELLANEOUS TERMS: ... adhesi n- cyt oskel et on i nt er act i on CONCEPT CODES:

```
24/3, K/3 (Item 3 from file: 5) DIALOG(R) File 5: Biosis Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.
              BI OSI S NO.: 200600566357
Toxoplasma M C2 is a major determinant of invasion and virulence
AUTHOR: Huynh My-Hang; Carruthers Vern B (Reprint)
AUTHOR ADDRESS: Johns Hopkins Univ, Sch Publ Hith, W Harry
Mol M crobiol and Immunol, Baltimore, MD 21218 USA** USA
                                                                 W Harry Feinstone Dept
AUTHOR E-MAIL ADDRESS: vcarruth@mich.edu
JOURNAL: PLoS Pathogens 2 (8): p753-762 AUG 2006 2006
ISSN: 1553-7366_(print) 1553-7374_(electronic)
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
Toxoplasma MIC2 is a major determinant of invasion and virulence
ABSTRACT: Like its apicomplexan kin, the obligate intracellular protozoan
  Toxoplasma gondii actively invades mammalian cells and uses a
  unique form of gliding motility. The recent identification...
...parasite has multiple options for host-cell recognition and invasion. To
  test whether the transmembrane adhesin MC2, together with its
  partner protein M2AP, participates in a major invasion pathway, we utilized a conditional expression system to introduce an
  anhydrotetracycline-responsive m c2 construct, allowing us to then knockout the endogenous m c2 gene. Conditional suppression of M C2
  provided the first opportunity to directly determine...
...immunity. Our findings demonstrate that the MIC2 protein complex is a
  major virulence determinant for Toxoplasma infection and that
  M C2-deficient parasites constitute an effective live-attenuated vaccine
  for experimental toxoplasmosis.
DESCRI PTORS:
  ...ORGANISMS: Toxoplasma gondii (Sporozoa
CHEMICALS & BIOCHEMICALS: ...transmembrane adhesin MIC2...
ŒNE NAME: Toxoplasma gondii mic2 gene (Sporozoa) {
     Toxoplasma protein gene}
                 (Item 4 from file: 5)
 24/3. K/4
DIALOG(R) File
                  5: Biosis Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.
              BIOSIS NO.: 200600324171
Preparing for an invasion: charting the pathway of adhesion proteins to
  Toxoplasma micronemes
AUTHOR: Huynh My-Hang; Harper Jill M; Carruthers Vern B (Reprint)
AUTHOR ADDRESS: Johns Hopkins Univ, Bloomberg Sch Publ Hith, W Harry
  Feinstone Dept Mol M crobiol and Immunol, Baltimore, MD 21205 USA** USA
AUTHOR E-MAIL ADDRESS: vcarruth@hsph.edu
JOURNAL: Parasitology Research 98 (5): p389-395 APR 2006 2006
I SSN: 0932-0113
DOCUMENT TYPE: Article; Literature Review RECORD TYPE: Abstract
LANGUAGE: English
Preparing for an invasion: charting the pathway of adhesion proteins to
  Toxoplasma micronemes
```

- ABSTRACT: Toxoplasma gondii is an apicomplexan parasite capable of infecting a broad host range including humans. The tachyzoite...
- ...adhesive proteins from apical secretory organelles called micronemes. A protein complex consisting of the transmembrane adhesin M C2 and a tightly associated partner, M2AP, is abundantly released from the micronemes. Similar to many proteins in a regulated secretory pathway, T. gondii proteins destined for micronemes and rhoptries (another secretory organelle associated with invasion) undergo proteolytic maturation...
- ...propeptide that is removed in a post-Golgi compartment. By expressing an M2AP propeptide deletion mutant in the M2AP knockout background, we show that the propeptide is required for the M C2-M2AP complex to exit from the early endosome. Although a cleavage-resistant MPAP mutant was able to efficiently reach the micronemes, it was unable to rapidly mobilize from the...
- ...invasion and were partially attenuated in virulence to a degree that is indistinguishable from MPAP knockout parasites. Conditional expression of MIC2 showed that it is also required for correct M2AP sorting...
- ...basis for future studies aimed at defining the branch points of protein sorting in T. gondii and at a deeper understanding of the precise roles of M2AP propeptide and M C2 targeting...

DESCRI PTORS:

...ORGANISMS: Toxoplasma gondii (Sporozoa CHEMI CALS & BI OCHEMI CALS:

24/3, K/5 (Item 5 from file: 5) DIALOG(R) File 5: Biosis Previews(R) (c) 2010 The Thomson Corporation. All rts. reserv.

BIOSIS NO.: 200500148075 18241010

Calcium mediated protein secretion potentiates motility in Toxoplasma gondi i

AUTHOR: Wetzel Dawn Mt Chen Lea Ann; Ruiz Felix A; Moreno Silvia N J;

Sibley L David (Reprint) AUTHOR ADDRESS: Sch MedDept Mol Microbiol, Washington Univ, St Louis, MO, 63110. USA\* \* USA

AUTHOR E-MAIL ADDRESS: sibley@orcim.wustl.edu

JOURNAL: Journal of Cell Science 117 (24): p5739-5748 November 15, 2004 2004

MEDIUM print ISSN: 0021-9533 \_(ISSN print)

DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English

- Calcium mediated protein secretion potentiates motility in Toxoplasma gondi i
- ABSTRACT: Apicomplexans such as Toxoplasma gondii actively invade host cells using a unique parasite-dependent mechanism termed gliding motility. Calcium mediated...
- ...stimulate intracellular calcium fluxes and found that this drug led to enhanced motility by T gondii. Treatment with calmidazolium increased the duration of gliding and resulted in trails that were twice Page 27

as long as those formed by control parasites. Calmidazolium also increased microneme secretion by T gondii, and studies with a deletion mutant of the accessory protein m2AP specifically implicated that adhesin MIC2 was important for gliding. The effects of calm dazolium on gliding and secretion were due...

...oscillations in intracellular calcium levels may regulate microneme secretion and control gliding motility in T. gondii.

DESCRI PTORS:

ORGANISMS: Toxoplasma gondii (Sporozoa... CHEMICALS & BIOCHEMICALS: ...adhesin protein

24/3, K/6 (Item 6 from file: 5) DIALCG(R) File 5: Biosis Previews(R) (c) 2010 The Thomson Corporation. All rts. reserv.

BI OSI S NO.: 200400256799 17886042

A role for coccidian cGMP-dependent protein kinase in motility and i nvasi on.

AUTHOR: Wiersma Helen I; Galuska Stefan E; Tomley Fiona M; Sibley L David; Liberator Paul A; Donald Robert G K (Reprint)

AUTHOR ADDRESS: Merck Research Laboratories, R80Y-260, P.O. Box 2000,

Rahway, NJ, 07065-0900, USA\*\* USA

AUTHOR É-MAIL ADDRESS: robertdonald@merck.com

JOURNAL: International Journal for Parasitology 34 (3): p369-380 9 March 2004 2004

MEDIUM: print

ISSN: 0020-7519 \_(ISSN print) DOCUMENT TYPE: Article RECORD TYPE: Abstract

LANGUAGE: English

... ABSTRACT: pyrrol-3-yl) pyridine (compound 1), which effectively controls the proliferation of Eimeria tenella and Toxoplasma gondii parasites in animal models. The efficacy of compound 1 in parasite-specific metabolic assays of...

...timing of compound addition. Simultaneous addition of compound with extracellular E. tenella sporozoites or T. gondii tachyzoites inhibited (3H)-uracil uptake in a dose-dependent manner, while minimal efficacy was observed...

...cell invasion. Immunofluorescence assays confirmed that compound 1 blocks the attachment of Eimeria sporozoites or Toxoplasma tachyzoites to host cells and inhibits parasite invasion and gliding motility. Compound 1 also inhibits the secretion of micronemal adhesins (E. tenella MC1, MC2 and T. gondii MC2), an activity closely linked to invasion and motility in apicomplexan parasites. The inhibition of T. gondii MC2 adhesin secretion by compound 1 was not reversed by treatment with calcium ionophores or by ethanol...

... calcium dependent events commonly associated with the discharge of the microneme organelle in tachyzoites. Transgenic Toxoplasma strains expressing cGMP-dependent protein kinase mutant alleles that are refractory to compound 1 (including cGMP-dependent protein kinase knock-out lines...

... potential role of cGMP-dependent protein kinase in invasion and motility. In these strains, parasite adhesin secretion, gliding motility, host cell attachment and invasion displayed a reduced sensitivity to compound 1...

DESCRI PTORS: . ORGANI SMS: Toxoplasma gondii (Sporozoa CHEMI CALS & BI OCHEMI CALS: 24/3, K/7 (Item 1 from file: 34) DIALOG(R) File 34: Sci Search(R) Cited Ref Sci (c) 2010 The Thomson Corp. All rts. reserv. Genuine Article#: 084QC 15570299 No. References: 27 Title: Mc1-3 knockout of Toxoplasma gondii is a successful vaccine against chronic and congenital toxoplasmosis in mice Author: Ismael AB; Dimier-Poisson I; Lebrun M; Dubremetz JF; Bout D; Mevelec MN (REPRINT) Author Email Address: mevelec@univ-tours.fr Corporate Source: Univ Tours, INRA, Fac Pharm, UMR Univ, Unite Format & Rech Sci Pharamceut, Inst, 31 Ave Monge/F-37200 Tours//France/ (REPRINT); Univ 5539, Mont pel I i er / / France/ 1176-1183 ISSN: 0022-1899 Publication Date: 20061015 Publisher: UNIV CHICAGO PRESS, 1427 E 60TH ST, CHICAGO, IL 60637-2954 USA Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE) I SSN: 0022-1899

Tours, INRA, Fac Pharm, UMR Univ, Unite Format & Rech Sci Pharameut, Inst, F-37200 Tours//France/; Univ Montpellier 2, CNRS, UMR Journal: JOURNAL OF INFECTIOUS DISEASES, 2006, V194, N8 (OCT 15), P

Title: Mc1-3 knockout of Toxoplasma gondii is a successful vaccine against chronic and congenital toxoplasmosis in mice Abstract: vaccine, M c1-3KO, against both chronic and congenital

toxoplasmosis in mice. Mc1-3KO is a mutant strain of Toxoplasma gondii RH that lacks the mic1 and mic3 genes.

Methods. OF1 mice were vaccinated with Mc1-3KO tachyzoites and challenged orally with T. gondii (strain 76K). Immune responses and protection against chronic infection (cyst load in brain tissue)

...Identifiers: MICRONEME PROTEIN; PREGNANT MICE; RESISTANCE; APICOMPLEXAN; TRANSMISSION; INFECTION; VIRULENCE; PARASITE; INVASION; ADHESIN

(Item 1 from file: 72) 72: EMBASE 24/3, K/8 DIALOG(R) File (c) 2010 Elsevier B.V. All rts. reserv.

EMBASE/Medline No: 2006510789 0081447706 Two separate, conserved acidic amino acid domains within the Toxoplasma gondii MIC2 cytoplasmic tail are required for parasite survival Starnes G.L.; Jewett T.J.; Carruthers V.B.; Sibley L.D.
Department of Molecular Microbiology, Washington University, School of
Medicine, St. Louis, MO 63130-1093, United States AUTHOR EMAIL: sibley@borcim wustl.edu CORRESP. AUTHOR/AFFÍL: Sibley L.D.: Dept. of Molecular Microbiology,

Washington University, School Medicine, 660 S. Euclid Ave., St. Louis, MD 63130-1093, United States CORRESP. AUTHOR EMAIL: sibley@borcim.wustl.edu

Journal of Biological Chemistry ( J. Biol. Chem ) (United States) Cctober 13, 2006, 281/41 (30745-30754) CODEN: JBCHA ISSN: 0021-9258 el SSN: 1083-351X DOI: 10.1074/j bc. M606523200 URL: http://www.jbc.org/cgi/reprint/281/41/30745 DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

Page 29

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 37

Two separate, conserved acidic amino acid domains within the Toxoplasma gondii M C2 cytoplasmic tail are required for parasite survival

parasite before they are shed by the activity of a rhomboid protease. TRAP orthologs, including Toxoplasma gondii MIC2 (microneme protein 2), possess a short cytoplasmic tail, which is essential for motility. Previous...

DRUG DESCRIPTORS:

adhesin; al anine; amino acid; fructose bisphosphate al dol ase; mutant protein; unclassified drug MEDICAL DESCRIPTORS:

... nonhuman; nucleotide sequence; parasite survival; point mutation; priority journal; protein analysis; protein domain; protein interaction; Toxoplasma gondii

24/3, K/9 (Item 1 from file: 399) DIALOG(R) File 399: CA SEARCH(R) (c) 2010 American Chemical Society. All rts. reserv.

143114041 CA: 143(7)114041r PATENT

Vaccine stocks of the Apicomplexan family Sarcocystidae

INVENTOR(AUTHOR): Dubremetz, Jean Francois; Bout, Daniel; Lebrun, Maryse LOCATION: Fr.

ASSIGNEE: Institut National de la Recherche Agronomique INRA; Centre National de la Recherche Scientifique CNRS; Universite Francois Rabelais PATENT: France Demande; FR 2864966 A1 DATE: 20050715 APPLICATION: FR 2004260 (20040113)

PAGES: 33 pp. CODEN: FRXXBL LANGUAGE: French PATENT CLASSI FI CATI ONS:

CLASS: C12N-001/11A; A61K-039/002B; A61K-035/68B; A61P-033/02B; C12N-015/30B

24/3, K/10 (Item 1 from file: 35) DIALOG(R) File 35: Dissertation Abs Online (c) 2010 ProQuest Info&Learning. All rts. reserv.

02081978 ORDER NO: AADAA-13172605

M croneme protein function in Toxoplasma gondii

Aut hor: Harper, Jill Marie

Ph. D. Dear ee: Year: 2005

Corporate Source/Institution: The Johns Hopkins University (0098) Source: VOLUME 66/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1878. 178 PAGES

LSBN: 0-542-10152-1

M croneme protein function in Toxoplasma gondii

<italic>Toxoplasma gondii</italic> is an obligate intracellular parasite of medical importance to both humans and animals. Host . . .

.. of M2AP is sufficient for complex formation in both mammalian cells and in <italic> T. gondii</italic>.

Full-length MC2 is a demonstrated adhesin, although the contributions of the individual adhesive domains had not been previously assessed. Using recombinant...

...propeptide and its processing influences complex trafficking. We generated parasites expressing M2APΔ pro, a mutant that lacks the propeptide, and parasites expressing M2AP P4-P4-super>′ </ super>(A), a mutant that is refractory to propeptide processing. We found that the absence of the propeptide results in secretory retention and, in the absence of proteolytic processing, complex assembly is impaired. Both mutant proteins cause impaired invasion and attenuated <italic>in vivo</italic> infections, emphasizing the importance of...

...propeptide. Because attachment and invasion are essential steps in the life cycle of <italic>T. gondii, </italic> we believe that proteins involved in these processes are promising drug targets.

24/3, K/11 (Item 1 from file: 135) DIALOG(R) File 135: News Rx Weekly Reports (c) 2010 News Rx. All rts. reserv.

0001940283 (USE FORMAT 7 OR 9 FOR FULLTEXT) Findings from Washington University, Medical Department provide new insights into pathogens Science Letter, July 13, 2010, p.1427

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English

RECORD TYPE: FULLTEXT

WORD COUNT: 361

TEXT: JUL 13 - (News Fx. com) -- "Host cell attachment by Toxoplasma gondii is dependent on polarized secretion of apical adhesins released from the micronemes (see also Pathogens). Subsequent translocation of these adhesive complexes by...

...demonstrate that TgROM4 participates in processing of surface adhesins including MIC2, AMA1, and MIC3. Suppression of TgROM4 led to decreased release of the adhesin MIC2 into the supernatant and concomitantly increased the surface expression of this and a subset of other adhesins. Suppression of TgROM4 resulted in disruption of normal gliding, with the majority of parasites twirling...
...colleagues published their study in Plos Pathogens (Rhomboid 4 (ROM4) Affects the Processing of Surface Adhesins and Facilitates Host Cell Invasion by Toxoplasma gondii. Plos Pathogens, 2010;6(4):858). Additional information can be obtained by contacting J.S. Buguliskis, Washington University, School Medical, Dept. of Molecular Microbiology, St. Louis, MO 63110, USA. The publisher of the...

24/3, K/12 (Item 2 from file: 135) DIALOG(R) File 135: News Rx Weekly Reports (c) 2010 News Rx. All rts. reserv.

0001052761 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Researchers from Washington University, Medical Department describe findings in life sciences
Life Science Weekly, June 30, 2009, p. 1763

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English

DOCUMENT TYPE: Expanded RECORD TYPE: FULLTEXT

WORD COUNT: 326

...TEXT: M C2)," scientists writing in the journal
... Based on in vitro studies and homology modeling, we generated a series of mutations in Toxoplasma gondii aldolase (TgALD1) that
Page 31

delineated MIC2 tail domain (MIC2t) binding function from its enzyme activity. We tested these mutants by complementing a conditional knockout of TgALD1. Mutations that affected glycolysis also reduced motility. Mutants only affecting binding to MIC2t...

...but is also essential for efficient host cell invasion, based on its ability to bridge adhesin-cytoskeleton interactions in the parasite." Starnes and colleagues published their study in Cell Host & M crobe (Aldolase Is Essential for Energy Production and Bridging Adhesin - Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells. Cell Host & M crobe, 2009;5(4...

24/3, K/13 (Item 1 from file: 185)
DIALCG(R) File 185: Zoological Record Chline(R)
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O5597234 BIOSIS No. 14208046844
Preparing for an invasion: charting the pathway of adhesion proteins to Toxoplasma micronemes.
AUTHORS: Huynh, My-Hang; Harper, Jill M; Carruthers, Vern B. (a)
AUTHORS ADDRESS: (a) Johns Hopkins Bloomberg School of Public Health, W
Harry Feinstone Department of Molecular M crobiology and Immunology, 615
North Wolfe Street, Baltimore, MD 21205; USA vcarruth@hsph.edu
SOURCE: Parasitology Research 98(5), April 2006: 389-395. [Print]
DOCUMENT TYPE: Article
ISSN: 0932-0113
LANGUAGES: English SUMMARY LANGUAGES: English
RECORD TYPE: Abstract

Preparing for an invasion: charting the pathway of adhesion proteins to Toxoplasma micronemes.

ABSTRACT: Toxoplasma gondii is an apicomplexan parasite capable of infecting a broad host range including humans. The tachyzoite...

- ...adhesive proteins from apical secretory organelles called micronemes. A protein complex consisting of the transmembrane adhesin M C2 and a tightly associated partner, M2AP, is abundantly released from the micronemes. Similar to many proteins in a regulated secretory pathway, T. gondii proteins destined for micronemes and rhoptries (another secretory organelle associated with invasion) undergo proteolytic maturation...
- ...propeptide that is removed in a post-Golgi compartment. By expressing an M2AP propeptide deletion mutant in the M2AP knockout background, we show that the propeptide is required for the MIC2-M2AP complex to exit from the early endosome. Although a cleavage-resistant M2AP mutant was able to efficiently reach the micronemes, it was unable to rapidly mobilize from the...
- ...invasion and were partially attenuated in virulence to a degree that is indistinguishable from M2AP knockout parasites. Conditional expression of MIC2 showed that it is also required for correct M2AP sorting...
- ...basis for future studies aimed at defining the branch points of protein sorting in T. gondii and at a deeper understanding of the precise roles of M2AP propeptide and MIC2 targeting...

#### DESCRI PTORS:

... Toxoplasma gondii, ...

```
...control mechanisms
  Toxoplasma gondii - - Proteins
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii--( Coccidia )--Parasite
  Mus musculus -- ( Muridae ) -- Host
 24/3, K/14
                 (Item 2 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
(c) 2010 The Thomson Corp. All rts. reserv.
                BI OSI S No. 14105027798
Calcium mediated protein secretion potentiates motility in Toxoplasma
gondi i
ĂUTHORS: Wetzel, Dawn M.; Chen, Lea Ann; Ruiz, Felix A.; Moreno, Silvia
N.J.; Sibley, L. David (a)
AUTHORS ADDRESS: (a) Department of Molecular Microbiology, Washington
University School of Medicine, 660 South Euclid Avenue, St Louis, MD 63110;
USA sibley@orcim wustl.edu
SOURCE: Journal of Cell Science 117(24), November 15 2004: 5739-5748.
[Print]
DOCUMENT TYPE: Article
I SSN: 0021-9533
LANGUAGES: English
                       SUMMARY LANGUAGES: English
RECORD TYPE: Abstract
Calcium mediated protein secretion potentiates motility in Toxoplasma
gondi i .
ABSTRACT: Apicomplexans such as Toxoplasma gondii actively
  invade host cells using a unique parasite-dependent mechanism termed
  gliding motility. Calcium mediated...
...stimulate intracellular calcium fluxes and found that this drug led to
  enhanced motility by T gondii. Treatment with calmidazolium
  increased the duration of gliding and resulted in trails that were twice
  as long as those formed by control parasites. Calmidazolium also increased microneme secretion by T gondii, and studies with a
  deletion mutant of the accessory protein m2AP specifically implicated that adhesin MIC2 was important for gliding. The effects
  of calm dazolium on gliding and secretion were due...
...oscillations in intracellular calcium levels may regulate microneme
  secretion and control gliding motility in T. gondii.
DESCRI PTORS:
  Toxoplasma gondii--Inorganic substances...
BROADER TERMS:
SYSTEMATICS:
  Toxoplasma gondii--( Coccidia )
 24/3, K/15
                 (Item 3 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
(c) 2010 The Thomson Corp. All rts. reserv.
04953227
                BI OSI S No. 14008043916
A role for coccidian cGMP-dependent protein kinase in motility and
i nvasi on.
AUTHORS: Wersma, Helen I.; Galuska, Stefan E.; Tomley, Fiona M; Sibley, L. David; Liberator, Paul A.; Donald, Robert G.K. (a)
AUTHORS ADDRESS: (a) Merck Research Laboratories, R80Y-260, P.O. Box 2000,
Rahway, NJ, 07065-0900; USA robert donald@merck.com
                                            Page 33
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SOURCE: International Journal for Parasitology 34(3), 9 March 2004: 369-380. [Print]

DOCUMENT TYPE: Article; Meeting paper

I SSN: 0020-7519

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Abstract

- ... ABSTRACT: pyrrol-3-yl] pyridine (compound 1), which effectively controls the proliferation of Eimeria tenella and Toxoplasma gondii parasites in animal models. The efficacy of compound 1 in parasite-specific metabolic assays of...
- ...timing of compound addition. Simultaneous addition of compound with extracellular E. tenella sporozoites or T. gondii tachyzoites inhibited [3H]-uracil uptake in a dose-dependent manner, while minimal efficacy was observed...
- ...cell invasion. Immunofluorescence assays confirmed that compound 1 blocks the attachment of Eimeria sporozoites or Toxoplasma tachyzoites to host cells and inhibits parasite invasion and gliding motility. Compound 1 also inhibits the secretion of micronemal adhesins (E. tenella M C1, M C2 and T. gondii M C2), an activity closely linked to invasion and motility in apicomplexan parasites. The inhibition of T. gondii M C2 adhesin secretion by compound 1 was not reversed by treatment with calcium ionophores or by ethanol...
- ... calcium dependent events commonly associated with the discharge of the m croneme organelle in tachyzoites. Transgenic Toxoplasma strains expressing cGMP-dependent protein kinase mutant alleles that are refractory to compound 1 (including cGMP-dependent protein kinase knock-out lines...
- ...potential role of cGMP-dependent protein kinase in invasion and motility. In these strains, parasite adhesin secretion, gliding motility, host cell attachment and invasion displayed a reduced sensitivity to compound 1...

DESCRI PTORS:

... Toxopl asma gondii - - Enzymes

BROADER TERMS:

SYSTEMATICS:

Eimeria tenella (Coccidia) Toxoplasma gondii (Coccidia)

24/3, K/16 (Item 1 from file: 266) DIALOG(R) FILE 266: FEDRIP

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00756710

I DENTI FYI NG NO.: 1ZI AAI 001017-03 AGENCY CODE: CRISP

Toxoplasma Surface Antigens and Immunity PRINCIPAL INVESTIGATOR: GRIGG, MICHAEL

SPONSORING ORG.: NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

FY: 2009

Toxoplasma Surface Antigens and Immunity

SUMMARY: The protozoan parasite Toxoplasma gondii infects all nucleated cells and establishes life-long chronic infections in virtually any warm-blooded...

.. The SRS proteins are regulated in a development-specific manner, and we showed by gene-knockout studies that four of these antigens expressed Page 34

by the tachyzoite stage are critical virulence factors: SAG1, SAG2, SRS2 and SAG3. SAG3 is a pivotal adhesin required for establishing whereas SAG1, SAG2 and SRS2 are primarily immunomodulating infection, factors that elicit...

... in all infected hosts. Our work with SRS2 identified that the majority of mouse virulent Toxoplasma strains poorly express SRS2, whereas all avirulent strains highly express SRS2. We tested whether the...

24/3, K/17 (Item 1 from file: 149) DIALOG(R) File 149: TGG Health&Wellness DB(SM) (c) 2010 Gale/Cengage. All rts. reserv.

(USE FORMAT 7 OR 9 FOR FULL TEXT) SUPPLIER NUMBER: 95206521 Role of Toxoplasma gondii myosin A in powering parasite gliding and host cell invasion. (Reports). Meissner, Markus; Schluter, Dirk; Soldati, Dominique Science, 298, 5594, 837(4)

Cct 25,

2002

PUBLICATION FORMAT: Magazine/Journal; Refereed IS LANGUAGE: English RECORD TYPE: Fulltext; Abstract I SSN: 0036-8075 TARGET AUDI ENCE: Academ c

LINE COUNT: WORD COUNT: 2223 00205

Role of Toxoplasma gondii myosin Ain powering parasite gliding and host cell invasion. (Reports).

...AUTHOR ABSTRACT: motion powered by their actomyosin system to disperse throughout tissues and to penetrate host cells. Toxoplasma gondii myosin A has been implicated in this process, but direct proof has been lacking. We designed a genetic screen to generate a tetracycline-inducible transactivator system in T. gondii. The MyoA gene was disrupted in the presence of a second regulatable copy of MyoA...

# TEXT:

...prerequisite for survival and replication, and this process is dependent on the ability of T. gondii to glide (1). Gliding motility requires an intact actin cytoskeleton (2) and is likely to...

...the MyoA gene have failed. Thus, we tried to establish a system for conditional gene knockout to study this gene in\_vivo. 7) has not been used in parasites. The TetR can control gene expression in T. gondii (8) but the tTA system is totally inactive. The repression system is suitable for expression of toxic genes and of dominant-negative mutants...

...s) (8) showed no significant (beta)-galactosidase activity. (FÍGURE 1 OMITTED)

To generate a conditional knockout of MyoA, a second copy of the gene controlled by the tet-inducible promoter (MyoAi...

...depletion of MyoAi nor ATc treatment affected the rate of intracellular growth (Fig. 3C).

T. gondii uses similar molecular mechanisms for egress and invasion (11-13). After lysis of the host...
...no significant movement (9) (Movies S6 to S8).

The apical organelles, called micronemes, release transmembrane adhesin complexes, which are necessary for parasite gliding and host cell invasion (14-15). An impairment...

... parasites and supplemented the drinking water for some groups with ATc. Page 35

The strain of T. gondii used in this study is RH, a type I strain, which typically kills mice with...

...this time ATc was withdrawn. At day 17 after infection, these animals had developed T. gondii T and B cell-specific responses, as determined by an interferon-(gamma) specific ELISPOT (Fig...

# ... FIGURE 4 OM TTED)

The transactivator described here was instrumental in the generation of a conditional knockout for a virulence gene in an apicomplexan. This system establishes that the small class XIV...

...for the modulation of parasite gene expression in animal studies. TATi-1 represents a T. gondii-specific transactivator, and it remains to be seen if this factor functions in other apicomplexans...

DESCRIPTORS: Toxoplasma--